

Claims

1. An electronic package comprising:
a housing;
electronic circuitry located within the housing;
a first member;
a second member;
a hole formed in at least one of the first and second members;
a fastener screw engaging the hole to fasten the first member to the second member; and
a particle containment pad disposed adjacent to the hole for collecting any particles formed during engagement of the fastener screw within the hole.
2. The electronic package as defined in claim 1, wherein the first and second members comprise first and second housing members forming the housing.
3. The electronic package as defined in claim 1, wherein the hole is non-threaded and the fastener screw is a self-threading screw, wherein the self-threading screw forms a threaded hole.
4. The electronic package as defined in claim 1, wherein the particle containment pad comprises a polymeric pad.
5. The electronic package as defined in claim 4, wherein the polymeric pad comprises a rubber pad.
6. The electronic package as defined in claim 1, wherein the particle containment pad is adhered to a surface.

7. The electronic package as defined in claim 1, wherein the hole is formed in a bracket.

8. The electronic package as defined in claim 1 further comprising a printed circuit board located within the housing, wherein the electronic circuitry is provided on the printed circuit board.

9. An electronic package comprising:
a first housing member;
a second housing member engaged with the first member to form a housing;
a hole formed in at least one of the first and second housing members;
a fastener screw engaging the hole to fixedly engage the first housing member to the second housing member; and
a particle containment pad disposed adjacent to the hole for collecting any particles formed during engagement of the fastener screw within the hole.

10. The electronic package as defined in claim 9, wherein the fastener screw is a self-threading screw that forms a threaded hole.

11. The electronic package as defined in claim 9, wherein the particle containment member comprises a polymeric pad.

12. The electronic package as defined in claim 9, wherein the particle containment pad is adhered to a surface.

13. The electronic package as defined in claim 9 further comprising a printed circuit board located within the housing, wherein the electronic circuitry is provided on the printed circuit board.

14. The electronic package as defined in claim 9, wherein the first and second housing members comprise a metal case and cover.

15. A method of assembling an electronic package, said method comprising the steps of:

- providing a housing;
- providing electrical circuitry within the housing;
- providing first and second members;
- forming a hole in at least one of the first and second members;
- providing a particle containment pad adjacent to the hole; and
- driving a fastener screw into the hole to fasten the first member to the second member, wherein any particles formed during the driving step are collected in the particle containment pad.

16. The method as defined in claim 15 further comprising the step of forming the housing by fastening the first member to the second member.

17. The method as defined in claim 15, wherein the step of forming the hole comprises forming a non-threaded hole.

18. The method as defined in claim 15, wherein the step of driving a fastener screw further comprises forming threaded grooves in the hole with a thread-forming fastener screw.

19. The method as defined in claim 15, wherein the first and second members comprise a metal case and a metal cover.

20. The method as defined in claim 15 further comprising the step of driving multiple fastener screws into multiple holes, each hole having a particle containment pad located adjacent thereto.

21. A method of forming a screw fastened assembly for an electronic package, said method comprising the steps of:

providing first and second members;
forming a hole in at least one of the first and second members;
disposing a particle containment pad adjacent to the hole; and
driving a fastener screw into the hole such that any particles formed during the driving step are collected in the particle containment pad.

22. The method as defined in claim 21, wherein the step of driving a fastener screw further comprises forming threaded grooves in the hole in a thread-forming fastener screw.

23. The method as defined in claim 21, wherein the first and second members are housing members that are assembled to form a housing.